# rvice Manu Supplement **Turntable System**

SL-1200MK2

[E], [EK], [XL], [EG], [EB], [EH], [EF], [Ei], [XA], [PA], [PE], [PC]

# SL-1210MK2

[E], [EG], [EH]

#### Areas

- \* (M) is available in the U.S.A.
- [MC] is available in Canada.
- [E] is available in Switzerland and Scandinavia.
- \* [EK] is available in United Kingdom.
- \* [XL] is available in Australia.
- \* [EG] is available in F.R. Germany.
- \* [EB] is available in Belgium.
- \* [EH] is available in Holland. \* [EF] is available in France.
- \* [Ei] is available in Italy.
- [XA] is available in Southeast Asia, Oceania, Africa, Middle Near East and Central South America.
- is available in far East PX.
- \* [PE] is available in European Military.
- is available in European Audio Club.

Please use this manual together with the service manual for Model No. SL-1200MK2/1210MK2.

English

# **Specifications**

Specifications are subject to change without notice for further improvement.

Weight and dimensions shown are approximate.

■ General

Power supply:

120V, AC 60 Hz (For [M], [MC] areas)

POP

~110-120/220-240V, 50 or 60 Hz

(For other areas)

5270209,

\*SL-1210MK2 is the model for black type of SL-1200MK2.

\*SL-1200MK2 is the model for silver type.

Power consumption:

14 W (For [M], [MC] areas)

Dimensions:

13.5 W (For other areas) 45.3 x 16.2 x 36 cm

 $(W \times H \times D)$ 

(17-27/32" x 6-19/64" x 14-11/64")

Weight:

12.5 kg (27.6 lb)

Turntable section

Type:

Quartz direct drive

Manual turntable

Dirve method:

Direct drive

Motor:

Brushless DC motor

Turntable platter:

Aluminum diecast

Diameter 33,2 cm (13-5/64")

Weight 2 kg (4.4 lb)

Turntable speeds:

Starting torque:

33-1/3 rpm and 45 rpm

**Build-up characteristics:** 

1.5 kg · cm (1.3 lb · in) 0.7 s. from standstill to 33-1/3 rpm

Braking system:

Electronic brake

Wow and flutter: 0.01% WRMS\*

0.025% WRMS (JIS C5521) ± 0.035% peak (IEC 98A Weighted)

\* This rating refers to turntable assembly alone, excluding effects of record, cartridge or tonearm, but including platter. Measured by obtaining signal from built-in frequency generator of motor assembly.

-56 dB (IEC 98A Unweighted) -78 dB (IEC 98A Weighted)

Matsushita Engineering and Service Company 50 Meadowland Parkway Secaucus. New Jersey 07094

Panasonic Hawaii Inc 91-238 Kauhi St. Ewa Beach P.O. Box 774 Honolulu, Hawaii 96808-0774

Matsushita Electric of Canada Limited 5770 Ambler Drive, Mississauga Ontario, L4W 2T3

anasonic Sales Company, Division of Matsushita Electric of Puerto Rico, Inc. Ave, 65 De Infanteria, KM 9.7 Victoria Industrial Park Carolina, Puerto Rico 00630

# **Technics**

Panasonic Tokyo Matsushita Electric Industrial Co., Ltd. 1-2, 1-chome, Shibakoen, Minato-ku, Tokyo 105 Japan

Matsushita Electric Trading Co., Ltd. P.O. Box 288, Central Osaka Japan

#### **■** Tonearm section

Type:

Universal

Effective length:

230 mm (9-1/16")

Arm height adjustment

range:

0 — 6 mm

Overhang: Effective mass: 15 mm (19/32") 12 g (without cartridge)

Offset angle:

22°

Friction: Tracking error angle: Less than 7 mg (lateral, vertical)
Within 2°32' (at the outer groove of

30 cm (12") record

Within 0°32' (at the inner groove of

30 cm (12") record

Stylus pressure

adjustment range:

0 - 2.5 g

Applicable cartridge

weight range:

6 – 10 g

13.5 - 17.5 g (including headshell)

(with auxiliary weight): 9.5 - 13g

17 - 20.5 g (including headhsell)

(with shell weight): 3.5 --

3.5 -- 6.5 g

11 - 14 g (including headshell)

Headshell weight: 7.5 g

#### - Notes -

★ To improve the performance of SL-1200MK2/1210MK2, the bottom structure and circuit are changed in the course of production.

★ After the change, SL1200MK2-A/1210MK2-A is indicated in the name plate as the model of the set.

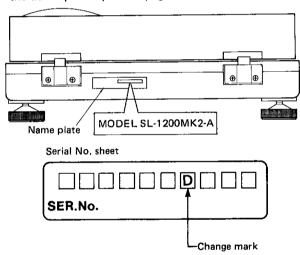
It is discriminated from before-change set by -A. Also, check that the present change is of the sets after the change mark shown in the sirial No. sheet attached to the bottom and carton box.

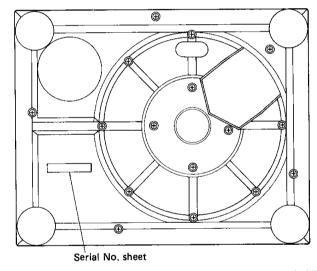
★ This supplement service manual contains the bottom plate disassembly procedure, change part No., circuit diagram, P.C.B. and block diagrams. The other contents are the same as for the service manual of SL-1200MK2/1210MK2 already issued.

★ Sets with cartridge (EPC-207C) are included in those for same areas.

★ Since the power transformer fitting method is different for sets with serial number sheet change mark 🗉 , refer to

the development plan on page 8.





# **■ DISASSEMBLY INSTRUCTIONS**

- How to remove the bottom cover and bottom base.
- 1. Remove the turntable mat and turntable.
- 2. Turn over the body on a soft cloth thaking care not to damage the dust cover.
- 3. Remove the insulators and the 21 setscrews (Fig. 1: 1.2.3) of the bottom cover.
- 4. Remove the 6 setscrews (Fig. 2: 4) of the bottom base.

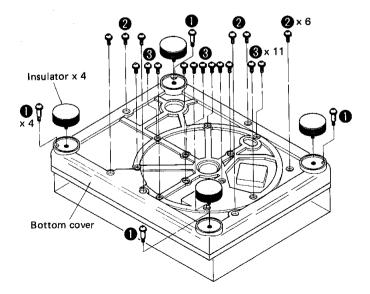
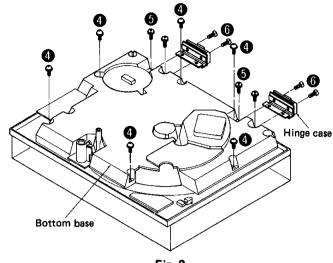


Fig. 1

### How to remove the hinge case

- 1. Remove the bottom cover. (Refer to "How to remove the bottom cover".)
- 2. Remove the 4 setscrews (Fig. 2: 5) of the hinge case bracket.
- 3. Remove the 4 setscrews (Fig. 2: 6) of the hinge case.

  Note: The other disassembly procedure are the same as for before-change sets.



### Fig. 2

### ■ REPLACEMENT PARTS LIST

#### Notes:

- 1. This parts list mentions only the difference between before and after change of SL-1200MK2/1210MK2.
- 2. (K) -marked parts are used only for SL-1210MK2 (black type). And O-marked parts are used for SL1200MK2 (silver type).
- 3. Parts other than (6) and O-marked are used for both SL-1210MK2 and SL-1200MK2.
- 4. The "S" mark is service standard parts and may differ from production parts.

#### Areas

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*	[MC]	is available in Canada.

- \* [E] is available in Switzerland and Scandinavia.
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- \* [XL] is available in Australia.
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- \* [PA] is available in far East PX.
- \* [PE] is available in European Military.
- \* [PC] is available in European Audio Club.

	Char	nge of Part No.		Per Set	
Ref. No.	SL-1200MK2 (Before Change)	SL-1200MK2/1210MK2 (After Change)			
INTEGRAT	ED CIRCUIT				
IC302	SVITC4011BP	MN4011B	NAND Gate	1	
TRANSIST	OR			<del></del>	-
Q1	2SD389A-Q	2SD1265	Regulator	1	
DIODES		<del></del>			•••
D1	SVDS1RBA40	SVDS1RBA20Z	Rectifier	1	Δ
D201, 202	SVDSR-105C	SVDPR3902S-9	Speed Indicator	2	
D203~206	SVDEBR5505S	SVDSLH54VT3	Strobe	4	
D401	SVDGL-9PG2	SVDGL-9NG2	Pitch Indicator	1	
CRYSTAL					
X201	SVQU306115	SVQMS4193	4.193 MHz, Oscillator	1	
VARIABLE	RESISTORS				
VR301	EVMH2GA00B53	EVMH1GA00B23	Pitch Control Adjustment, 2kΩ (B)	1	
VR303	EVBJ05C19ABE	SFDZ122N11	Pitch Control	1	
SWITCHES	No.	٧			
S203	SFDSSS5GL13C	SFDSSS01GL13	Start/Stop	1	
S601	SFDSSS5GL13S	SFDSSS5GL13P	Power	1	Δ
TRANSFOR	RMER				
T1	SLT60EU7B	SLT66DTL3A [M]	Power Source	1	Δ
T1	SLT60E31C	SLT66DT14C [MC]	Power Source	1 1	Δ
T1	SLTF5900	SLT66DTE13A [Other areas]	Power Source	1	Δ

	Char	nge of Part No.		Per Set	Remarks	
Ref. No.	SL-1200MK2 (Before Change)	SL-1200MK2/1210MK2 (After Change)	Part Name & Description	(Pcs.)		
TONEARN	A PARTS					
		SFPAM18201K	Tonearm Ass'y (Silver)	1	0_	
62	SFPAM18201K	SFPAM18202K	Tonearm Ass'y (Black)	1	<u>(K)</u>	
79	SFPKB17201S	SFPKB17204E	Ring, Arm Base Operation	1		
		SFGK132-01	Cap (Silver)	1	0	
82	SFGK132-01	SFGK133S01	Cap (Black)	1	<b>€</b>	
ACCESSO	RIES					
	SFNU122M01	SFNU122M06 [M]	Instruction Book	1		
	SFNU122C01	SFNU122C06	Instruction Book	1		
A1	SFNU122S01	SFNU122\$01 [E]	Instruction Book	1		
	SFNU122G01	SFNU122G01 [EK]	Instruction Book	111		
	Addition	SFNU122P01 [PA, PE, PC]	Instruction Book	1		
	SFNU122X01	SFNU122X01 [Other areas]	Instruction Book	1		
A2	SFWE010	SFWE122-01	45 Adaptor	1		
PACKING	PARTS				So.	
		SFHP122C02 [MC, EF]	Carton Box (Silver)	1	0	
i P1	SFHP122C01	SFHP122M02 [Other areas]	Carton Box (Silver)	1	0	
	SFHP122M01	SFHP124S02	Carbon Box (Black)	1	€	
P9	Addition	SPB1083	Polyethylene Bag, Accessories	2		
P10	Addition	SPJ15	Polyethylene Bag, Shell Weight	1		
P11	Addition	SFHZD03M01	Polyethylene Bag, Dust Cover	3		
P12	Addition	SFHZ122-01	Polyethylene Bag, 45 Adaptor	1		
P13	Addition	SPP189	Polyethylene Bag, Cords	2		

# **ADJUSTMENT POINTS**

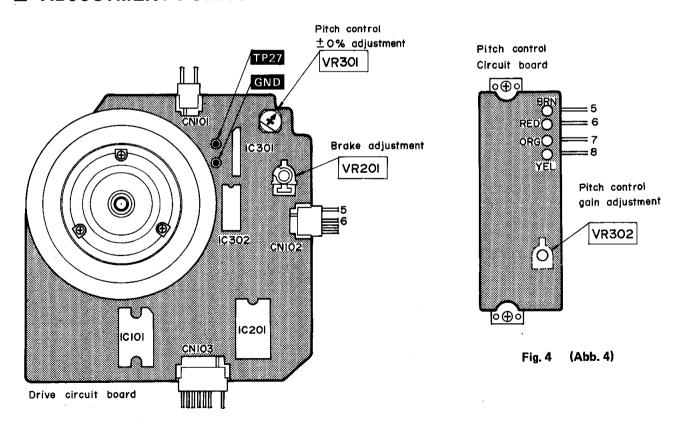


Fig. 3 (Abb. 3)

# MEASUREMENTS AND ADJUSTMENTS:

■ English **:** 

- Conditions of set, and instruments used
- 1. Remove the panel cover.
- 2. Remove the bottom cover (when adjusting the pitch control gain).

- 3. Frequency counter
- 4. Tester

	Adjustment	ment Connection		Procedure
1	Pitch control ± 0% adjustment	Frequency counter (+) - TP27 (-) - Earth point	VR301 (Fig3)	<ol> <li>Connect the frequency counter and turn the power supply ON.</li> <li>Set the pitch control knob to "0". (Indicator lights up.)</li> <li>Adjust VR301 so that the frequency is 262.08 kHz ± 0.05 kHz.</li> </ol>
2	Pitch control gain adjustment	Tester (+) — CN102 terminal ⑤ . (-) — CN102 terminal ⑥	∨R302 (Fig. 4)	<ol> <li>Set the pitch control knob to "0".</li> <li>Pull out the connector CN102 of drive P.C.B.</li> <li>Connect the tester to terminals, \$\sqrt{5}\$ and \$\sqrt{6}\$ of connector CN102 on the pitch control P.C.B. side.</li> <li>Adjust VR302 so that the resistance value of the tester is 2.7 kΩ ± 0.1 kΩ.</li> </ol>
3	Brake adjustment		VR201 (Fig. 3)	<ol> <li>Adjust VR201 so that the rotation at 33 r.p.m. stops within the angle of 90° ~120° after depressing the stop button.</li> </ol>

### **■ DISASSEMBLY PROCEDURE**

### How to remove panel cover

- 1. Remove head shell and turntable.
- 2. Secure arm with arm clamp.
- 3. Remove 5 screws **(a)** of the panel cover as shown in Fig. 1.

# How to remove stater frame coil and F.G detector coil

- 4. Remove 3 connectors (3) and 2 read wires (9) from power transformer as shown in Fig. 2.
- 5. Remove 3 screws **9** of the drive circuit board and 3 screws **9** of the stater frame cover as shown in Fig. 2.
- Disconnect 18 soldered parts of the stater coil and 4 soldered parts of the F.G detector coil as show in Fig. 3.
- 7. Remove 3 screws of the stater frame ass'y as shown in Fig. 3.

### How to remove bottom base ass'y

- 8. Remove 4 audio insulators. (Counterclockwise rotation)
- 9. Remove 17 screws and spacer as show in Fig. 4.
- 10. Remove 11 screws 
  as shown in Fig. 4.

### How to remove stylus-illuminator lamp

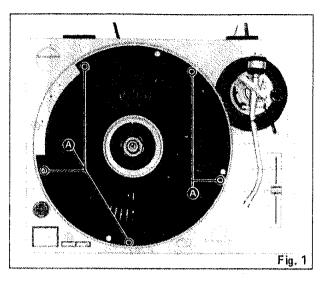
- 11. Remove 2 screws of the stylus-illuminator lamp ass'y as shown in Fig. 5.
- 12. Remove 1 screw ( as shown in Fig. 6.

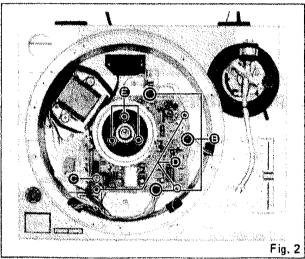
### How to remove neon-illuminator L.E.D.

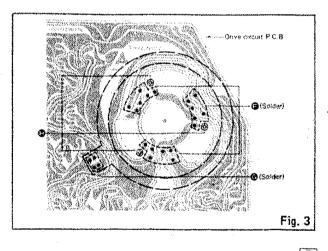
- 13. Remove 4 screws (a) as shown in Fig. 5.
- 14. Remove 1 circlip **(a)** and switch cam **(a)** as shown in Fig. 5.
- 15. Remove strobo-illuminator case.

### How to remove tone arm

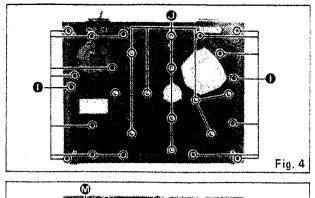
- 16. Remove 4 screws (a) of the arm base cover as shown in Fig. 5.
- 17. Remove 2 screws **(a)** of the phono cord clamper as shown in Fig. 5.
- 18. Remove phono cord clamper as shown in Fig. 7.
- 19. Remove 2 screws **③** of the phono cord p.c.b. as shown in Fig. 8.
- 20. Remove 2 screws S as shown in Fig. 8.
- Remove 2 screws for the silicon oil dumper as shown in Fig. 8.
- 22. Remove 3 screws ① as shown in Fig. 8.
- 23. Remove 2 screws **3** of the tone arm as shown in Fig. 9.

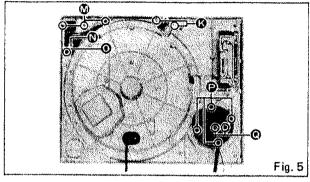


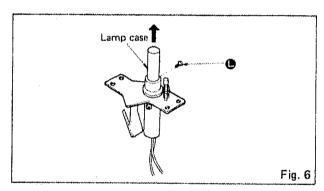


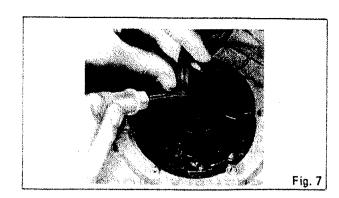


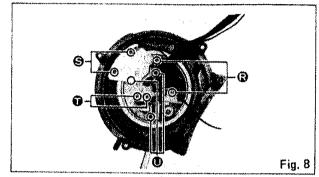
# 5L-1200MK2

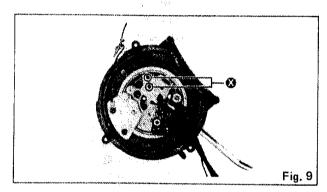




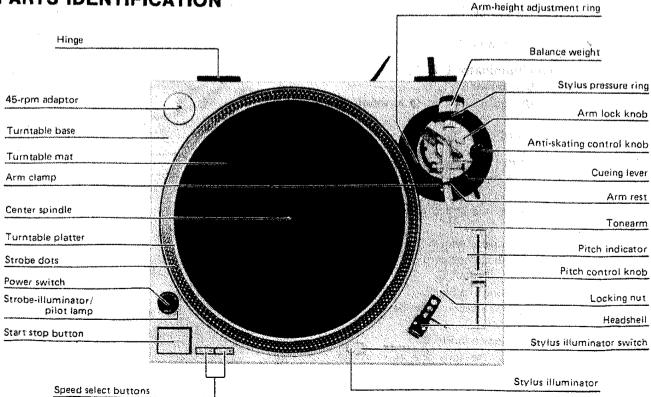








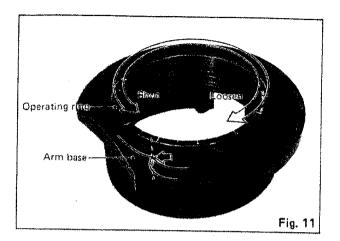
■ PARTS IDENTIFICATION





## # ARM BASE ASSEMBLING PROCEDURE

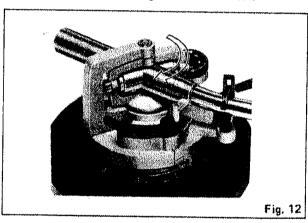
- 1. Attach the control ring to the arm base seat. (The control ring should be roated counterclockwise.)
- 2. Completely tighten the control ring, and then loosen it 1.5~2.5 turns to set the scale to "3". (See Fig. 11)



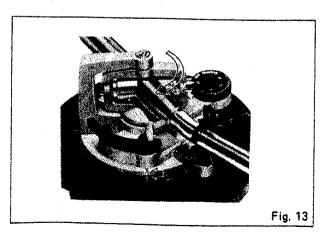
 Hold the arm base and set the red line mark on the arm base to the scale near "2", then turn the arm base clockwise. (See Fig. 12)

#### Note:

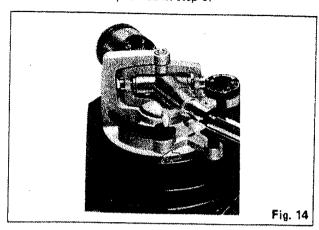
Take care not to allow deflection of the predetermined positions of the control ring and arm base seat.

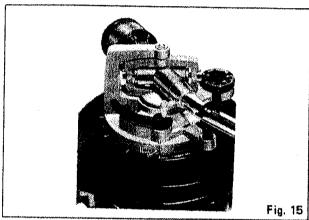


4. Adjust the arm base so that the red line mark on the arm base is set to the scale "3" of the control ring. Next, secure the positioning base plate with two setscrews. (See Fig. 13)



5. Rotate the control ring and make sure that the arm base shifts within the range of 0~6mm. (See Figs. 14 and 15) If it does not shift within the specified range, the arm base position is deflected. In that case, disassemble the parts and check as specified in step 3.

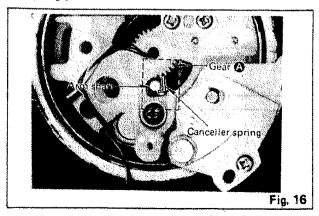




# ■ ADJUSTMENT OF CANCELLER SPRING POSITION

If the arm body or PU base plate is replaced, be sure to set the canceller knob to "0.5" and make sure that the canceller spring is in contact with the arm shaft. (See Fig. 16) if the canceller spring is deflected, adjust it as follows:

- 1. Clamp the arm on the rest.
- 2. Set the canceller knob to "0.5".
- 3. Remove the PU base plate, adjust gear a so that the canceller spring is in the position of Fig. 16.
- 4. Mount the PU base plate onto the arm base and check the spring position.



### **ADJUSTMENTS**

# Pitch control (fine adjustment of speed) (See Figs. 18 and 19.)

When the pitch control knob is located at the center of the position after turning on the power, the green LED indicator is lit showing the operating condition for the predetermined speed (either 33-1/3 or  $45 \, \text{rpm}$ ). The pitch control is variable in a range of about  $\pm 8\%$ 

Adjustment should be done on the basis of indicator scale. Figures on the indicator show approximate percentages for variable pitch control.

When the strope dots in 4 stages marked at the peripheral edge of the turntable appear to be stationary, variation of individual pitches is shown. (See Fig. 19.)

### Note:

The strobe-illumination of this unit employs a strobe-illuminator LED synchronized with the precise quartz frequency.

For fine adjustment of the turntable speed, be sure to effect the adjustment according to the LED illumination.

The LED illumination is not synchronized with fluorescent lamps.

### Adjustment of arm-lift height (See Figs. 20 and 21.)

The arm-lift height (distance between the stylus tip and record surface when cueing lever is raised) has been adjusted at the factory before shipping to approximately 8-13mm.

If the clearance becomes too narrow or too wide, turn the adjustment screw clockwise or counterclockwise, while pushing the arm lift down.

### Clockwise rotation

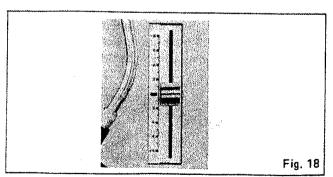
-distance between the record and stylus tip is decreased. Counterclockwise rotation

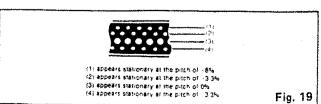
-distance between the record and stylus tip is increased.

#### Note:

As the adjusting screw has hexagonal head, be sure to make the adjustment while depressing the arm lift, or the screw will not move freely.

Also be sure that the hexagonal head retracts correctly into the arm lift when the latter is released.





### Adjustment of the tonearm height (See Fig. 22.)

The height of the tonearm can be adjusted up to 6 mm, and a scale is provided on the adjust ring in 0.5 mm increments. Be sure to set the proper arm height using the adjust ring scale and referring to the table.

Height of cartridge (mm) (H)	Scale reading on the arm-height adjust ring
15	0
16	1
17	2
18	3
19	4
20	5
21	6

For example, if the cartridge height is 17.5 mm, the armheight adjust ring should be positioned at the intermediate location between 2 and 3 on the scale. (See Fig. 22.)

#### Caution:

and Addition of the Control

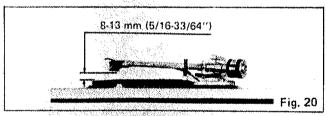
Be sure to lock the tonearm by turning the arm lock knob in the direction indicated by the arrow after finishing the height adjustment for the tonearm.

### Lubrication (See Fig. 23.)

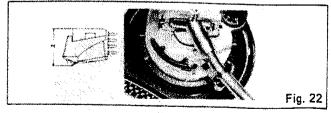
Apply 2 or 3 drops of oil once after every 2000 hours of operation.

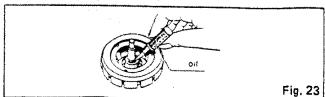
The time interval is much longer than that for conventional type motors (200-500 hours).

Please purchase original oil. (Part number is SFWO 010.)









### **RESISTORS AND CAPACITORS**

# Notes: 1. Part numbers are indicated on most mechanical parts.

- Please use this part number for parts orders.
- 2. Important safety notice: Components identified by A mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
- 3. The "S" mark is service standard parts and may differ from production parts.
- 4. Bracketed indications in Ref. No. colum specify the area. Parts without these indications can be used for all area.
- 5. The unit of resistance is  $\Omega$  (ohm).
  - $K = 1000\Omega$ ,  $M = 1000k\Omega$
- 6. The unit capacitance is  $\mu F$  (microfarad).  $P = 10^{-6} \mu F$

#### Areas

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- \* [PA] is available in far East PX.
- \* [PE] is available in European Military.
- [PC] is available in European Audio Club.

### **Numbering System of Resistor**

### Example

ERD	25	F	J	101
Type	Wattage	Shape	Tolearance	Value
ERX	2	AN	J	2R2
Type	Wattage	Shape	Tolerance	Value

Resistor type	Wattage	Tolerance
ERD: Carbon	25 : 1/4W	F : ±1%
ERG: Metal Oxide	50:1/2W	J : ±5%
ERO: Metal Film	1A: 1W	
ERX: Metal Film	2A: 2W	

### **Numbering System of Capacitor**

#### Example

ECKD	1H	102	Z	F.	
Type	Voltage	Value	Tolerance	Peculiarity	
ECEA	50	М	R47	R	
Туре	Voltage	Reculiarity us	e Value	Special use	

Cap	pacitor Type	V	oitage	Tolearnce		
ECEA	: Electrolytic	Ol	: 6.3V	J : ±5%		
ECEB	: Electrolytic	1C	: 16V	K : ±5%		
ECCD	: Ceramic	1E	: 25V	M : ±20%		
ECQM	: Polyester	1H	: 50V	Z : +80%,-20%		
ECQU	: Polyester	1	: 100V			
ECQF	: Polyester	1A	: 125V			
ECNC	: Polyester	4A	: 400V			

### REPLACEMENT PARTS LIST

- Notes: 1. Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.
  - 2. Important safety notice:
    - Components identified by A mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
  - 3. Bracketed indications in Ref. No. columns specify the area. Parts without these indications can be used for all areas.
  - 4. The "S" mark is service standard parts and may differ from production parts,
  - 5. The parenthesized numbers in the column of description stand for the quentity per set.
  - 6. (K) -marked parts are used only for SL-1210MK2 (black type). And Omarked parts are used for SL-1200MK2 (silver type).
  - 7. Parts other than (K) and O-marked are used for both SL-1210MK2 and SL-1200MK2.

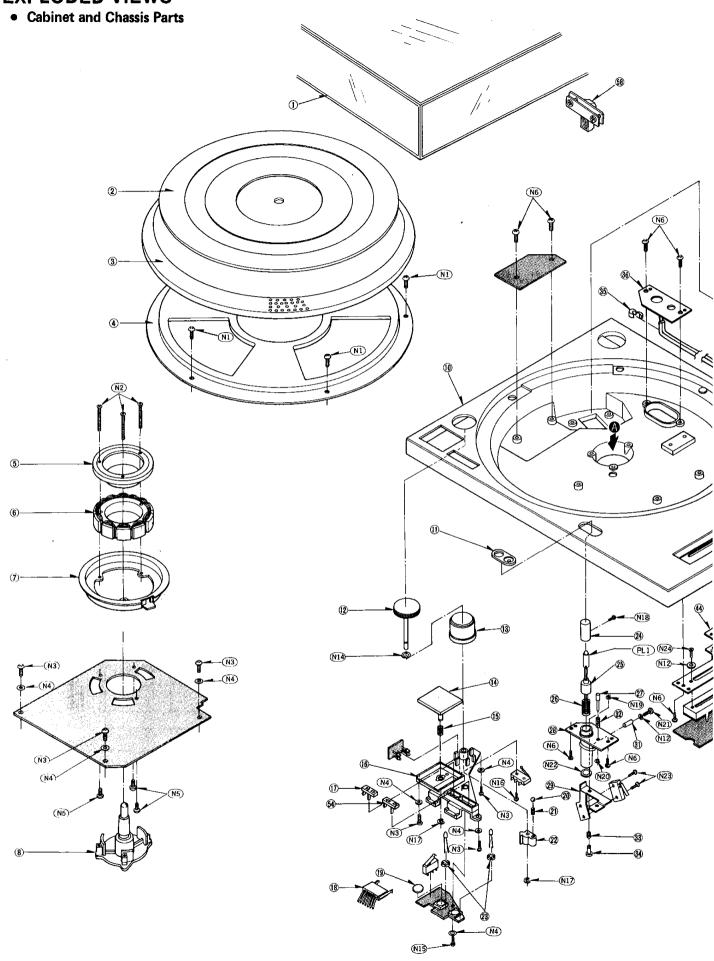
#### Areas

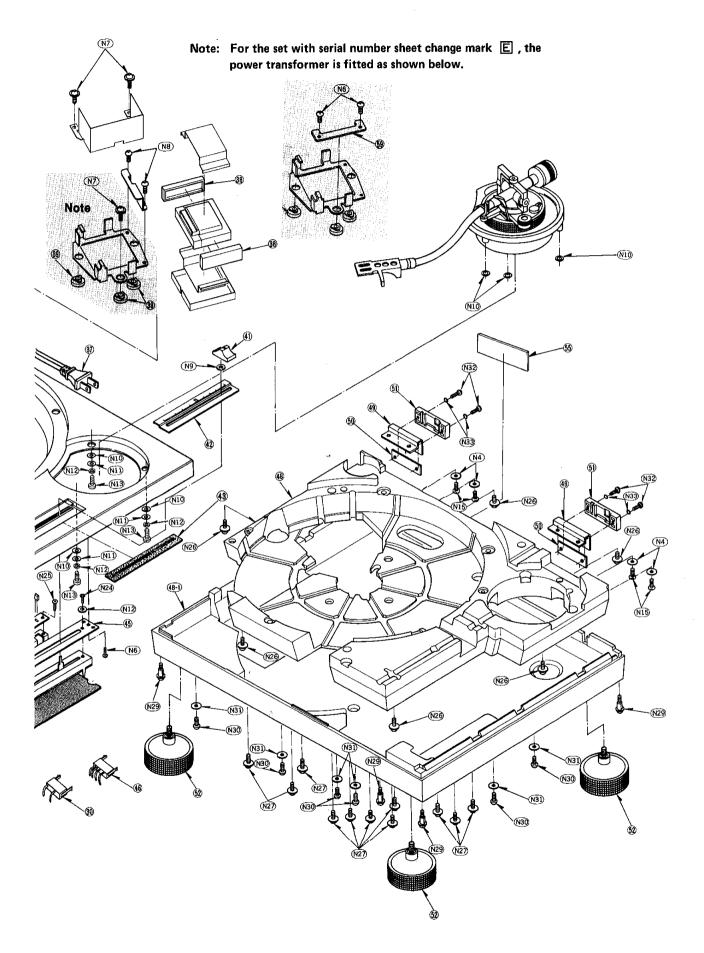
- \* [M] is available in the U.S.A.
- (MC) is available in Canada.
- \* (E) is available in Switzerland and Scandinavia.
- \* [EK] is available in United Kingdom.
- \* [XL] is available in Australia.
- \* [EG] is available in F.R. Germany.
- \* (EB) is available in Belgium.
- \* [EH] is available in Holland.
- \* [EF] is available in France. \* [Ei] is available in Italy.
- \* [XA] is available in Southeast Asia, Oceania, Africa, Middle Near East and Central South America.
- \* [PA] is available in far East PX.
- \* [PE] is available in European Military.
- \* [PC] is available in European Audio Club.

Ref. No.		Part No.	Description	Ref. No.		Part No.	Description	Ref. No.		Part No.	Description
INTEGRATE	INTEGRATED CIRCUITS			CRYSTAL				LAMP		•	
IC101		AN6675	Turntable Drive	X201		SVQMS4193	4.193MHz	PL1	Δ	SFDN122-01	Stylus Illuminator
IC201		AN6680	Turntable Control				Oscillator	TRANSFORM	1ER		
IC301		AN6682	Pitch Control	VARIABLE RE	ESIS	TORS		TI (M)	Δ	SLT66DTL3A	Power Source
IC302		MN4011B	NAND Gate	VR201	(3)		Brake	T1 (MC)	$\overline{\lambda}$	SLT66DT14C	Power Source
TRANSISTO	RS			1	_		Adjustment,50kΩ(B)	T1 (Other areas)	_	SLT66DTE13E	Power Source
Q1		2SD1265	Regulator	VR301		EVMH1GA00B23	Pitch Control±0%	FUSES		1	1
02,3		2SD637	Regulator	l			Adjustment,2kΩ(B)		_		[40m/4 ma
Q201	(S)	2SC1846-R	Regulator	VR302	·(\$)	EVTS3MA00B54	Pitch Control Gain	F1(MC)	Ý	XBA1F12NU14	125V,1.2A
Q202	_	2SD637	LED Driver				Adjustment,50kQ(B)	for (M.MC)	Δ	XBA2C025T1A	250V,T250mA
Q203	<b>(S</b> )	2SC1328-T	FG Amp.	VR303		SFDZ122N11	Pitch Control	, , .,	$\wedge$	XBA2C10TR0	DEOUTA A
DIODES		<u> </u>		SWITCHES    F2 Except				ABAZCIOTHU	250V,T1A		
D1	Δ	SVDS1RBA20Z	Rectifier	8201,202		EVQP5R04K	Speed Selector				
D2		MA1051 *	5.1V Zener	S203		SFDSSS01GL13	Stort/Stop				
D201,202		SVDPR3902S-9	Speed Indicator	S401		SFDSD2MSL-C	Stylus-Illuminator				
D203~206		SVDSLH54VT3	Strobe	S601	Ф	SFDSSS5GL13P	Power				
D204A		MA162A	Switching	S602 Except	Δ	SFDSHXW01317	Voltage Selector				
D301		MA1051	5.1V Zener	for (M,MC	2)						
D401		SVDGL-9NG2	Pitch Indicator			1	İ	L			

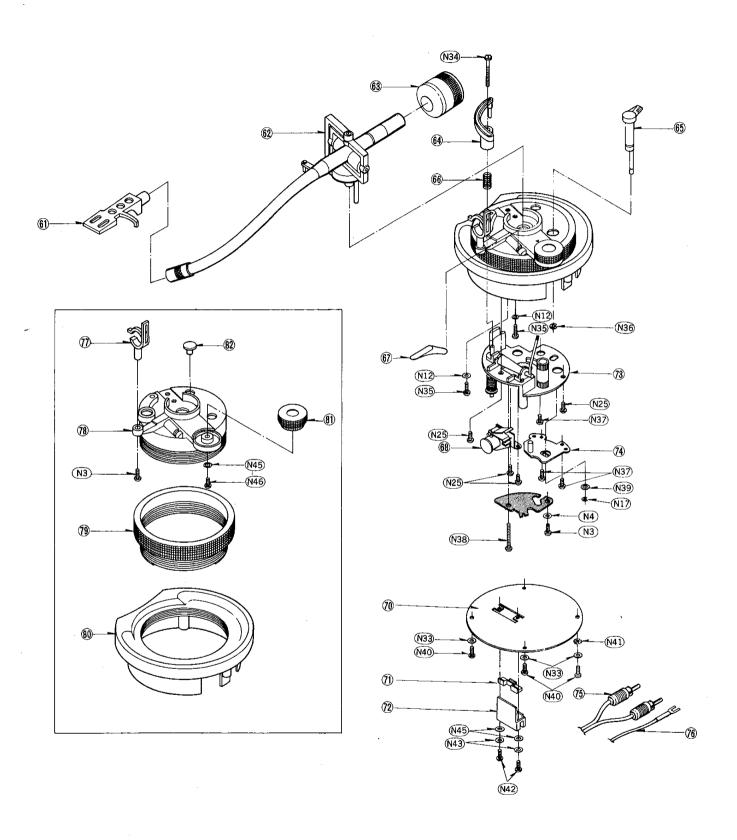
Ref. No.	Part No.	Description	٦	Ref. No.	Part No.	Description	$\neg$	Ref. No.	Part No.	Description	$\neg$
CHAPINET	AND CHASSIS	DADTS	$\dashv$	52	SFGC122-02E	Insulator	(4)	N31 S	XWG3FZ	Washer	(6)
CHABINE			•	54	SFKT015-02E	Button, Speed (45)	(1)		XSN3+14BVS	Screw	(4)
1	SFAD122-01A		1)					N33 ®	XWA3BFZ	Washer	(4)
2	SFTG172-01		!)[	55(M) O	SFNN122M10,	Name Plate	(1)	N34	SFXG829-1	Screw	(1)
3	SFTE172-01	•	1)	55 (MC) O	SFNN122C10	Name Plate	(1)	N35 ®	XSN3+8S	Screw	(2)
4	SFUM172-05		1)	55(E) O	SFNN122S10	Name Plate	(1)	N36 S	XUC5FT	Circlip	(1)
5	SFMGQ20-01		1)	56(EK,XL) (	SFNN122G10	Name Plate	(1)	N37	SFPEV17202	Screw	(3)
6 9154	SFMG520-31A		1)	55 (XA) O	SFNN122X10	Name Plate	(1)	N38 ®	XTN3+25B	Screw	(1)
7	SFMZ172-01E		1)	55 (PA,PE)O	SFNN122P10	Name Plate	(1)	N39	SFPEW1100	Washer	(1)
8	SFMZQ20-01A	Shaft Ass'y, Turntable (	1)	55(PC) O	SFNN122P11	Name Plate	(1)	N40 ®	XSN3+6BVS	Screw	(4)
l			-	55 (Other O	SFNN122N10	Name Plate	(1)				
10 0	SFAC122-01	Cabinet (Silver)		areas)				N41 ®	XWC3BFZ	Washer	(1)
10 ®	SFAC124S01	Cabinet (Black)	1)	55(E) ®	SFNN124S10	Name Plate	(1)	N42 ®	XSN3+12BVS	Screw	(2)
l				55 ®	SFNN124Q10	Name Plate	(1)	N43 ®	XWG3FZ	Washer	(2)
11	SFUM172-04	Ornament, Stylus (	ч	(EG,EH)				N44	SFXW701-02	Washer	(1)
	05:5-100.01	Illuminator		58	SFATM02N01A	Hinge	(2)	N45	SFPEW00705	Washer	(4)
12	SFKT122-01		!)	59	SFUP122-25		(1)	N46	XTW26+5E	Screw	(1)
13	SFKK122-01E	Case, Strobe Illuminator (		TONEARM				ACCESSO	RIFS	<u> </u>	
14	SFKT015-06		1)			T	<u> </u>			1	(1)
15	SFQA122-01	Spring, Start/Stop Button		61	SFPCC31001K	Headshell	(1)	A1(M)	SFNU122M06	Instruction Book	(1)
16	SFUM122-01		1)	l		<u>-</u> .	,	A1(MC)	SFNU122C06	Instruction Book	(1)
17	SFKT015-01E			62 0	SFPAM18201K	1		A1(E,EB,EC)	SFNU122S01	Instruction Book	(1)
18	SFDJ122-02E		1)	62 ®	SEPAM18202K	,	(1)	A1(EK)	SFNU122G01	Instruction Book	(1)
19	SFGZ122-01	1 1 1 1 1 1	1)	l.	1.			A1(PA,	SFNU122P01	Instruction Book	(1)
20	SFYB-5-32	l '	1)	63	SFPWG17201K	Balance Weight	(1)	PE,PC)		l	, ,
21	SFQA520-01	- Fr	1)	64	SFPRT18201K	Lift Ass'y	(1)	A1 (Other	SFNU122X01	Instruction Book	(1)
22	SFUM122-03		1)	65	SFPZB17202	I ' .	(1)	areas)			
23 YOW (	SFUM015-11	Spacer, Speed Indicator(		66	SFQA829-03	Spring, Lift Ass'y	(1)				
24 '	SFKK172-01	Cover,Stylus illuminator (		67	SFPAB13202	Knob, Arn Lift	(1)	A2	SFWE010	45 Adaptor	(1)
25	SFXB122-06	· ·	1)	68	SFPJL18202K	Oil Damper	(1)	A3	SFPEN3302	Nut,Cartridge	(2)
26	SFQA172-01	, -	1)	70	SFPZB12203	Plate, Arm Base Cover		A4	SFPEW9601	Washer,Cartridge	(2)
27	SFXJ172-01	Pin, Lock Canceler (	1)	71	SFUM170-06	Spacer, Phono Cord	(1)	A5	SFCZV8801	Screw,Cartridge	(2)
28	SFUP122-02E		1)	72	SEPZB12204	Clamper, Phono Cord	(1)	A6	SFPEV9801	Screw,Cartridge	(2)
		Stylus Illuminator (	1)	73	SFPAB18201K	Tonearm Fixing Plate	(1)	A7	SFK0135-01	Overhang Gauge	(1)
29	SFUP122-03	Plate, Lock Operation (	1)	74	SFPZB12201K	Plate	(1)	A8 _	SFPZB3501	Shell Weight	(1)
30	SFDJ122-03E			75	SFDH122-05	Phono Cord	(1)	A9 🔼	SFDK119118	2pin Plug	(1)
31	SFX0172-01	'		76	SFEL028-01E	Ground Wire	(1)	(XA) Only			
32	SFQA520-01	Spring, (	1)	77	SFPRT17201K	Arm Rest	(1)	A10	SFPWG17202	Sub-weight	(1)
	Ì	Lock Canceler	ı	1			- 1	A11 A	QJP0603S	Adaptor, Gimens	
33	SFQA122-02	)	1)	78 🔾	SFPKD17203	Arm Base (Silver)	(1)	(PA,PE,			1
		Lock Operation Plate	ı	78 ®	SFPKD17205	Arm Base (Black)	(1)	PC) Only		<u> </u>	
34	SFXJ172-05	Pin, (	1)	1	RFKN 1200M			PACKING	PARTS		- 1
		Lock Operation Plate	1	79	SFPKB17204E	Ring,Arm Base Operation		<b>—</b>	SFHP122C02	Carton Box (Silver)	(1)
35 (M,MC,PA	SFHK040L	Clamper, AC Cord (	1)	80	SFPKD12201	Bracket, Arm Base	(1)	EF]	OF 111 122002	Carton Dox (Gilver)	``'
PE,PC)			1	81	SFPAB17206	Knob, Anti-Skating	(1)	P1 (Other O	SFHP122M02	Carton Box (Silver)	(1)
35(EK)	SFSR-5N-4		1)	L			, [	areas)			```
<b>35</b> (Other	SFSR-4N-4	Clamper, AC Cord	1)		SFGK132-01	Cap (Sliver)	(1)	PI ®	SFHP124S02	Carton Box (Black)	(1)
areas)	l		$\ $		SFGK133S01	Cap (Black)	(1)	1			
36 (M,MC,PA	SFUP122-16	Bracket, AC Cord	1)	SCREW,NI	UT AND WASHE	RS		P2	SFHH122-01	Pad, Front	(1)
PE,PC)				N1 (S)	XTN3+8BFZ	Screw	(5)	P3	SFHH122-02	Pad, Rear	(1)
<b>36</b> (Other	SFUP122X01	Bracket, AC Cord	1)	N2	SFXGQ20-02	Screw	(3)	P4	SFHD122N05	Pad, Top	(1)
areas)	1,400		.,[	N3 (S)	XTN3+8B	Screw		P5	SFHD122-02	Pad (A), Turntable	(1)
	RJA9Y	AC Cord	1)	N4 (S)	XWG3	Washer	(12)	P6	SFHD122N06	Pad (B), Turntable	(1)
(M,MC)		l		_	XTN26+6B	Screw	(3)		SFYH60X60	Polyethylene Bag,	(2)
37(EK) △®			1)	N6 ®	XTV3+8BFN	Screw	(8)	I	·	Unit& Dust Cover	
37(XL) △®			1)	N7	SFXG172-01	Screw		P8	SFYH4QX45	Polyethylene Bag,	(1)
37 <b>∆</b> ®	SJA83	AC Cord	1)	N8	XTN3+5J	Screw	(2)	I		Turntable	- /
(PA,PE,PC)		l	١.,	N9	SFXW172-03	Washer		P9	SPB1083	Polyethylene Bag,	(3)
37 ∆®	SJA88	AC Cord	1)	N10	SFPEW11003	Washer	(6)	1		Accessories	
(Other areas)	l .			I				P10	SPJ15	Polyethylene Bag,	(1)
l		l	إړ	N11 ®	XWE3E10	Washer	(3)	I		Shell Weight	- /
38	SFGC122-03		2)		XWA3B	Washer		P11	SFHZD03M01	Cover Sheet, Dust Cover	(1)
l		Power Transformer	اړ.		XSN3+10S	Screw	(3)	P12	SFHZ122-01	Cover Sheet, 45Adapto	or (1)
39	SFGC122-01		3)	N14	SFXW910J02	Washer		P13	SPP189	Cover Sheet, Cords	(2)
L.	OFKERS ST	Power Transformer	١,	N15 ®		Screw	(5)	1			-
41	SFKT122-02	Knob, Pitch Control	1)		XTN2+10B	Screw	(1)				- 1
l. ^	051/1/400 00	0-4	١,	N17 S	XUC3FT	Circlip	.(2)				
42 0	SFKK122-03	, ,	1)	N18	XSN17+3FY		(1)	1			
40 0	DENKA 1001	Pitch Control	١,,	N19 S		Circlip	(1)				
42 ®	SFKK124S01	, ,	1)		XUC25FT	Circlip	(1)	1			
		Pitch Control	ı	1		1 '	1	1			
l. <u>.</u>				N21 S	XSN3+14S	Screw	(1)	1			
43	SFUZ122-01		1)	N22	RTW-12	Circlip	(1)				
44	SFUP122-09		1)		XSN2+10	Screw	(2)				
45	SFUP122-01		1)		XSN3+6S	Screw	(2)				
46	SFDJ122-01E		1)	N25 S	XTN3+6B	Screw	(5)	1			
48	SFAU122-02		1)	N26	XTWS3+14TFZ	Screw	(6)				
48-1	SFAU122-03		1)	N27	SFXG122-02	Screw	(11)				
49	SFUP122-23		2)	N29	SFXG122-01	Screw	(4)				
50	SFUP122-24		2)	N30	XTN3+14QFZ	Screw	(6)	L	L		
51	SFUMM02N04						_				

# **■ EXPLODED VIEWS**

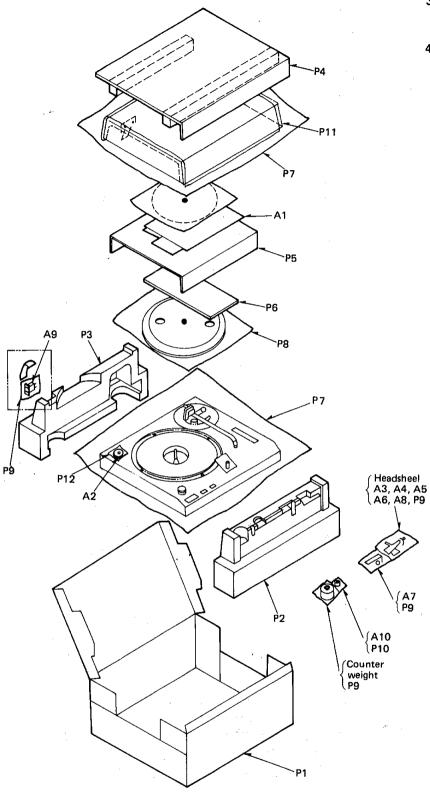




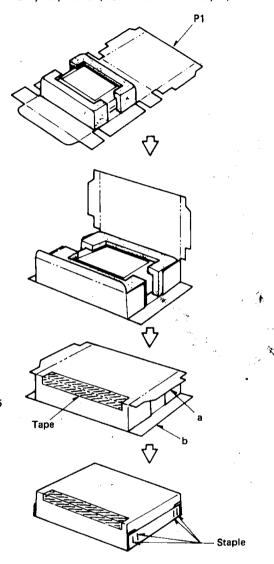
### • Tonearm Parts



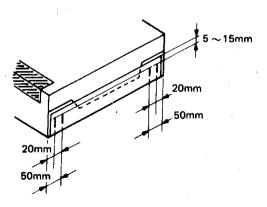
## **■ PACKING**



- 1. Plase the unit (with cushions attached) as illustrated.
- 2. Fold the flaps according to the line marks.
- 3. Seal the top with adhesive tape.
  - \* Use gum tape or adhesive cloth tape of 50mm wide at least
- 4. For the edges, first fold the flap "a" and then flap "b", and staple. Remember to staple only flap "b". (Use 15 or 16mm staple)



Stapling positions are shown below.



Printed in Japan 840412450 (H) T.K.